## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTH	ORITY		
To: GEOFFREY L. MELNICK G. E. EHRLICH (1995) LTD. 11 MENACHEM BEGIN STREET RAMAT-GAN, ISRAEL 52 521		.,	PCT  STATE OPINION OF THE ONAL SEARCHING AUTHORITY
·			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	28 SEP 20119
Applicant's or agent's file reference		FOR FURTHER	
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/IL05/00090	25 January 2005 (25.01.)	2005)	27 January 2004 (27.01.2004)
International Patent Classification (IPC)			
IPC(7): G01N 21/64: C12M 1/36: G01N	1/10 and US Cl.: 422/82.0	7, 82.11, 102; 435/28	36.5, 288.5, 288.7; 356/246, 442; 250/238
Applicant			
ROMOV AT TEL AVIV UNIVERSITY	LTD.		
1. This opinion contains indications rel	ating to the following item	s:	
Box No. I Basis of the	opinion		
Box No. II Priority			
Box No. III Non-establi	shment of opinion with re	gard to novelty, inver	ntive step and industrial applicability
Box No. IV Lack of uni	ty of invention		
	tatement under Rule 43bis y; citations and explanation		o novelty, inventive step or industrial atement
Box No. VI Certain doc	uments cited		
Box No. VII Certain defe	ects in the international app	plication	•
Box No. VIII Certain obs	ervations on the internation	nal application	
2. FURTHER ACTION	•		
If a demand for international prelim	g Authority ("IPEA") ex the IPEA and the chosen	cept that this does IPEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an e International Bureau under Rule 66.1 bis(b) ared.
IPEA a written reply together, when of Form PCT/ISA/220 or before the	e appropriate, with amend expiration of 22 months fr	ments, before the exp	EA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.
For further options, see Form PCT/IS	SA/220.		
3. For further details, see notes to Form	PCT/ISA/220.	•	
Name and mailing address of the ISA/ US	<del></del>	Authorized officer	1000
Mail Stop PCT, Attn: ISA/US		John Kim	XI AGUITO - ()
Commissioner for Patents P.O. Box 1450		10m ×m	2. Whytho
Alexandria, Virginia 22313-1450		Telephone No. 57	71-272)1700

Form PCT/ISA/237 (cover sheet) (January 2004)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/IL05/00090	

Box No. I Basis of this opinion	
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.	
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).	
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:	
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
in written format	
in computer readable form	
c. time of filing/furnishing	
contained in international application as filed.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority for the purposes of search.	
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In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
4. Additional comments:	
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00090

Box No. V Reasoned statement under Rule 4 applicability; citations and explan	13 <i>bis</i> .1(a)(i) nations supp	with regard to novelty, inventive step orting such statement	or industrial
1. Statement			•
Novelty (N)	Claims	Please See Continuation Sheet	YES
	Claims	Please See Continuation Sheet	NO
Turneding day (IS)	Claima	Please See Continuation Sheet	YES
Inventive step (IS)		Please See Continuation Sheet	NO
Industrial applicability (IA)		Please See Continuation Sheet	YES
	Claims	Please See Continuation Sheet	NO
2. Citations and explanations:			
Claims 1-13,15,17,18,21,32,33,35-37,39-46,49-59,17 PCT Article 33(2) as being anticipated by US 6,664,1 The US patent discloses a microfluidic device compri means for heating reactants in the chambers and optic 14; col.8, lines 26-27; col.13, lines 5-20; col.17, lines	04 B2 (POUR sing a pluralit al and electric	AHMADI ET AL.). y of chambers connected by channels. The d	evice further comprises
Claims 129-155 lacks novelty under PCT Article 33(2). The CHANG patent discloses a plurality of microfluid optical excitation and emission waveguides.	2) as being ant dic cassettes e	icipated by US 6,565,815 B1 (CHANG ET A ach comprising chambers connected by micro	L.) fluidic channels and
Claims 1,16,19,20,22-31,34,38,47,48,60-128,156-171 criteria set out in PCT Article 33(2)-(4), because the p	1,173,174,177, prior art does i	178,186-199,202,206,207,212-214,219,221-2 not teach or fairly sugguest the structural elem	231,233-242, meet the nents defined therein.
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Form PCT/ISA/237 (Box No. V) (January 2004)			<u> </u>

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00090

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I. Reasoned Statements: e opinion as to Novelty was positive (\$1,173,174,177,178,186-199,202,206,206 e opinion as to Novelty was negative (\$5,172,175,176,179-185,200,201,203,206 e opinion as to Inventive Step was posit,173,174,177,178,186-199,202,206,206 e opinion as to Inventive Step was negs 5,172,175,176,179-185,200,201,203-206 e opinion as to Industrial Applicability e opinion as to Industrial Applicability	07,212,214,219,221-231,233-242 No) with respect to claims 1-13,15,1 05,208-211,215-218,220,232 itive (Yes) with respect to claims 14, 07,212,214,219,221-231,233-242 attive(NO) with respect to claims 1-1 05,208-211,215-218,220,232	7,18,21,32,33,35-37,39-4 16,19,20,22-31,34,38,47, 3,15,17,18,21,32,33,35-3	16,49-59,129 <b>-</b> 48,60-128,156-
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